This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.

2.*** shows the word which can not be translated.

3.In the drawings, any words are not translated.

Bibliography

```
(19) [Country of Issue] Japan Patent Office (JP)
```

- (12) [Official Gazette Type] Open patent official report (A)
- (11) [Publication No.] JP,2003-190616,A (P2003-190616A)
- (43) [Date of Publication] July 8, Heisei 15 (2003. 7.8)
- (54) [Title of the Invention] Medal loan machine
- (51) [The 7th edition of International Patent Classification]

A63F 7/02 352

5/04 512

G07F 7/08

[FI]

A63F 7/02 352 P

5/04 512 S

G07F 7/08

[Request for Examination] Tamotsu

S

[The number of claims] 9

[Mode of Application] OL

[Number of Pages] 10

- (21) [Filing Number] Application for patent 2001-396271 (P2001-396271)
- (22) [Filing Date] December 27, Heisei 13 (2001. 12.27)
- (71) [Applicant]

[Identification Number] 592097934

[Name] ***** industrial stock formula company

[Address] 1920, Kami-koizumi, Oizumimachi, Ora-gun, Gumma-ken

(72) [Inventor(s)]

[Name] Itoda Koichi

[Address] 1920, Kami-koizumi, Oizumimachi, Ora-gun, Gumma-ken Inside of ** electronic industry incorporated company

(72) [Inventor(s)]

[Name] Ozawa **

[Address] 1920, Kami-koizumi, Oizumimachi, Ora-gun, Gumma-ken Inside of ** electronic industry incorporated company

(74) [Attorney]
[Identification Number] 100107906
[Patent Attorney]
[Name] Sudo Katsuhiko
[Theme code (reference)]
20088
3E044
[F term (reference)]
20088 BA88 BC71 BC79 EA44
3E044 AA05 AA06 BA02 FA03

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.

2.**** shows the word which can not be translated.

3.In the drawings, any words are not translated.

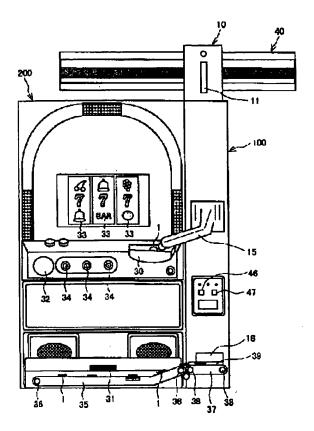
Summary

(57) [Abstract]

[Technical problem] The game facility which can perform games, such as a slot machine, is offered without a game visitor touching a medal.

[Means for Solution] The guidance nozzle 15 is minded according to the discernment result of the bill discrimination circuit 10 which discriminates the truth of the thrown—in bill, and the bill discrimination circuit 10. It had the medal expenditure machine 13 which pays out a medal, and the medal transport devices 35, 37, and 18 which convey the medal discharged from the medal exhaust port 31 of a slot machine 200 for the guidance nozzle 15 were formed in the medal loan machine 100 with which a medal is thrown into the medal input port 30 of the slot machine 200 which adjoined the main part and was installed from the guidance nozzle 15.

[Translation done.]



[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

- 1. This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

CLAIMS

[Claim(s)]

[Claim 1] The medal loan machine characterized by providing the following The bill discrimination circuit which discriminates the truth of the thrown-in bill The medal expenditure machine which pays out a medal through a guidance nozzle according to the discernment result of the aforementioned bill discrimination circuit The medal transport device which conveys the medal discharged from the medal exhaust port of the 0 aforementioned game machine for the aforementioned guidance nozzle in

2003-190616 4

the medal loan machine with which a medal is thrown into the medal input port of the game machine which adjoined the main part and was installed from ***** and the aforementioned guidance nozzle

[Claim 2] The medal loan machine according to claim 1 characterized by having the bill transport device to which even the bill recovery box installed in **** conveys the bill received in the aforementioned bill discrimination circuit.

[Claim 3] The aforementioned medal transport device is a medal loan machine according to claim 1 or 2 characterized by consisting of the 1st medal conveyance section which conveys the medal discharged from the medal exhaust port of the aforementioned game machine to the medal conveyance relay position of a main part, and the 2nd medal conveyance section which conveys the medal conveyed in the aforementioned medal conveyance relay position to the aforementioned guidance nozzle.

[Claim 4] The medal conveyance section of the above 1st is a medal loan machine according to claim 3 characterized by having the 1st medal conveyance belt which carries and conveys the medal discharged from the medal exhaust port of the aforementioned game machine, and the rotation driving source which carries out the rotation drive of this 1st medal conveyance belt.

[Claim 5] The medal conveyance section of the above 2nd is the medal loan machine according to claim 3 carry out having the medal packet which runs through it and contains the medal which was attached in the 2nd medal conveyance belt by which a rotation drive is carried out, and this 2nd medal conveyance belt, and was conveyed by the aforementioned main part lower part by the rotation driving source, and the medal chute section which shows the medal which falls from the aforementioned medal packet to the aforementioned guidance nozzle as the feature. [one's] [Claim 6] The medal conveyance section of the above 2nd is the medal loan machine according to claim 3 carry out it being attached in the 2nd medal conveyance belt in which a rotation drive is carried out by the rotation driving source, and this 2nd medal conveyance belt, having the medal installation section for laying a medal after one sheet has stood up at a time, and having the medal chute section which shows the medal which falls from the aforementioned medal installation section to the aforementioned guidance nozzle as the feature.

[Claim 7] The medal conveyance section of the above 2nd is the medal loan machine according to claim 3 carry out it being attached in the 2nd medal conveyance belt in which a rotation drive is carried out by the rotation driving source, and this 2nd medal conveyance belt, having the medal installation section for laying where it lays down a medal one sheet at a time, and having the medal chute section which shows the medal which falls from the aforementioned medal installation section to the aforementioned guidance nozzle as the feature.

[Claim 8] It is the medal loan machine according to claim 3 which the medal conveyance section of the above 2nd is equipped with the spiral shaft in which the medal conveyance box and this medal conveyance box for conveying two or more

medals collectively were attached, and the driving source which carries out the rotation drive of this spiral shaft, and is characterized by carrying out lift conveyance of the aforementioned medal conveyance box with rotation of the aforementioned spiral shaft.

[Claim 9] The medal conveyance section of the above 2nd is the medal loan machine according to claim 3 carry out having the guide pins for sending out the medal contained by two or more rotation disks with which it is mutually engaged and rotation is transmitted, the medal receipt slot established in each aforementioned rotation disk, and the aforementioned receipt slot to an adjoining rotation disk, and the rotation driving source which carries out a rotation drive in the aforementioned rotation disk as the feature.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

- 1. This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[The technical field to which invention belongs] this invention relates to the medal loan machine which conveyed automatically the medal especially discharged from medal exhaust ports, such as a slot machine, to medal input port about the medal loan machine installed by the slot machine installed in recreation facilities. [0002]

[Description of the Prior Art] Conventionally, in the recreation facilities with which the game machine of a slot machine was installed, the game visitor borrowed the medal of the specified quantity from the medal loan machine installed by the slot machine which uses a medal.

[0003] And the medal used in case the game of the slot machine is played was moved to the medal saucer which had the medal discharged by the medal saucer of a medal loan machine in the hand, and was once prepared in the front face of slot MASHINN, had the medal put into this medal saucer in the number—of—sheets hand

2003-190616 6

required for a game, and threw it into the medal input port of a slot machine. [0004] However, since a medal was touched by many game visitors' hand in this case, it was dirty from dust or various germs. It was, when it had such a medal in the hand and the complaint of a hand becoming dirty and being dirty and being troubled was brought near by the game visitor.

[0005] Then, it came to develop the medal loan machine equipped with the guidance nozzle which shows the medal of the specified quantity discharged from the medal exhaust (hopper) of a medal loan machine to the medal input port in which it was prepared by the slot machine. According to this medal loan machine, if money is invested in the money input port of a medal loan machine, since a medal will be automatically thrown into the medal input port of a slot machine through a guidance nozzle, a game visitor loses need of having a medal in a hand and supplying to medal input port. In addition, the medal loan machine equipped with this guidance nozzle is indicated by JP,2000–279628,A etc., for example.

[0006]

[Problem(s) to be Solved by the Invention] About the medal discharged by the medal saucer from the medal exhaust port of a slot machine as a result of the game of a slot machine, it is necessary for a game visitor to have a medal in a hand like old too, when using this medal for a slot machine, and to supply to the medal input port of a slot machine.

[0007] For this reason, the problem in the sanitation side of having the unclean medal in a hand still remained.

[0008] Moreover, about the medal discharged by the medal saucer from the medal exhaust port, in order to have to supply one sheet at a time to the input port of a slot machine and to have to perform a game, there was also a problem that a medal injection took time and effort. Moreover, when time was taken in a game visitor throwing in a medal and time was taken, it also became the quick hindrance of a game and the problem of being inelastic also had the sales of the part recreation facilities.

[0009] It aims at offering the medal loan machine which this invention is made in view of the problem mentioned above, and the game of a slot machine can be played, without touching a medal at all, and can increase sales sharply.

[0010]

[Means for Solving the Problem] The bill discrimination circuit which discriminates the truth of the bill with which the medal loan machine of this invention was thrown in, In the medal loan machine with which a medal is thrown into the medal input port of the game machine which is equipped with the medal expenditure machine which pays out a medal through a guidance nozzle according to the discernment result of the aforementioned bill discrimination circuit, and adjoins a main part from the aforementioned guidance nozzle It is characterized by preparing the medal transport device which conveys the medal discharged from the medal exhaust port of the aforementioned game machine for the aforementioned guidance nozzle.

[0011] According to this invention, if a bill is thrown into a bill discrimination circuit, as for the medal used for a game machine, a medal will be thrown into the medal input port of a game machine from a guidance nozzle. Moreover, since it is conveyed by the guidance nozzle and a medal is again thrown into the medal input port of a game machine by the medal transport device from a guidance nozzle about the medal discharged from the medal exhaust port of a game machine in the midst of the game, a game visitor can perform a game, without touching a medal from beginning to end.

[0012]

[Embodiments of the Invention] Hereafter, it explains in detail, referring to a drawing about the gestalt of operation of this invention.

(1st operation gestalt) It is drawing in which drawing 1 shows the front view of a medal loan machine and a slot machine, and drawing 2 shows the cross-section structure of the right lateral of the medal loan machine. This medal loan machine 100 is installed in the right-hand side side by side for every set of a slot machine 200 in recreation facilities, such as a pachinko hole. The bill discrimination circuit 10 is attached in the upper surface of the main part at the medal loan machine 100. The input port 11 of a bill (for example, 1000 yen bill) is formed in the front face of this bill discrimination circuit 10, and it is constituted so that the truth of the bill thrown in from this input port 11 may be distinguished.

[0013] And when the bill is distinguished from a true bill, a distinction signal is sent to a control unit 12. Then, a control signal is sent to the medal expenditure machine 13 (hopper) from a control unit 12. The medal expenditure machine 13 discharges the medal of predetermined number of sheets in the medal chute section 14 based on the control signal.

[0014] The medal discharged from the medal expenditure machine 13 falls along with the medal chute section 14, and it is constituted so that it may be supplied to the medal input port 30 prepared in the front face of the slot machine 200 which it let the guidance nozzle 15 pass further, and adjoined the left-hand side of the medal loan machine 100. Thus, if a bill is thrown into the bill discrimination circuit 10, it has accomplished so that the medal of predetermined number of sheets used for the game of a slot machine 200 may be automatically supplied to a slot machine 200. [0015] Moreover, the bill distinguished as it is a true bill is sent out to the bill transport device 40 by the bill discrimination circuit 10 through the bill guidance implement 43 connected to the rear face of the bill discrimination circuit 10. The bill transport device 40 is pinched between the endless belts hung on pulleys 41 and 42. is conveyed from the upstream of an island with rotation of an endless belt on a lower stream of a river, and is contained by the bill recovery box installed in ****. [0016] Next, the composition of the medal transport device which carries out lift conveyance of the medal paid out of the medal exhaust port 31 of a slot machine 200 by the game of a slot machine 200 at the above-mentioned guidance nozzle 15 is explained.

[0017] If the rotation starting lever 32 prepared in the front face is pulled, the rotation reel 33 will start rotation, and a slot machine 200 stops rotation by pushing an earth switch 34. If a predetermined pattern (for example, 7, 7, 7) is equal to the pattern screen of the rotation reel 33 at this time, operation which pays the medal of predetermined number of sheets out of the above-mentioned medal expenditure mouth 31 will be performed.

[0018] The medal conveyance belt 35 is installed in the medal saucer section which receives the medal from the medal expenditure mouth 31. This medal conveyance belt 35 is an endless belt hung on the pulley 36. By carrying out the rotation drive of the shaft of a pulley 36 by the motor (un-illustrating), the medal conveyance belt 35 rotates in the clockwise direction in drawing 1.

[0019] And the medal 1 discharged from the medal expenditure mouth 31 is conveyed in the state where it was laid in this medal conveyance belt 35, and is sent out on the medal conveyance belt 37 prepared in the front face of the medal loan machine 100.

[0020] The medal conveyance belt 37 is an endless belt similarly hung on the pulley 38, and the medal conveyance belt 37 rotates it in the clockwise direction in drawing 1 by carrying out the rotation drive of the shaft of a pulley 38 by the motor (un-illustrating). And 90 degrees of directions are changed into the medal 1 which has the medal conveyance belt 37 top conveyed by contacting a guide plate 39. And the medal 1 which it turned is conveyed by the reservoir section 17 (medal conveyance relay position) temporarily [medal] which was prepared in the pars basilaris ossis occipitalis of a main part from the medal carrying—in mouth 16 of the medal loan machine 100.

[0021] Moreover, the conveyance belt 18 is installed in the reservoir section 17 upper part temporarily [this / medal]. The medal conveyance belt 18 is an endless belt hung on the pulleys 19, 20, and 21 arranged in accordance with the conveyance path, and the medal conveyance belt 37 rotates it in the counterclockwise direction in drawing 2 by carrying out the rotation drive of the shaft of a pulley 19 by the motor (un-illustrating). Here, the pulley 21 is arranged in the position made crooked so that a conveyance path may expect the guidance nozzle 15.

[0022] And two or more medal conveyance packets 22 for containing the medal 1 which accumulated in the reservoir section 17 temporarily [medal], and carrying out lift conveyance are attached in the medal conveyance belt 18. That is, the medal conveyance packet 22 caudad moved with rotation of the medal conveyance belt 18 runs through its medal 1 which accumulated in the reservoir section 17 temporarily [medal], and where a medal 1 is contained, it goes up again.

[0023] And the medal 1 which it changed into the state of **** when the medal conveyance packet 22 reached near the pulley 21, and was contained in the medal conveyance packet 22 It is energized by the rotation force of the medal conveyance belt 18, and falls in the medal chute section 23 in which the medal chute section 14 mentioned above was formed caudad. Furthermore, it is constituted so that it may

2003-190616 9

be supplied to the medal input port 30 prepared in the front face of the slot machine 200 which it let the guidance nozzle 15 pass and adjoined the left-hand side of the medal loan machine 100.

[0024] Thus, with the medal conveyance belts 35 and 37, it is conveyed by the reservoir section 17 temporarily [of the medal loan machine 200 / medal], after having been contained by the medal conveyance packet 22 further attached in the medal conveyance belt 18, lift conveyance is carried out to the guidance nozzle 15, and the medal 1 discharged from the medal exhaust port 31 of a slot machine 200 is again thrown into the medal input port 30 of a slot machine 200.

[0025] In addition, the medal conveyance belt 36 is approached and the medal proximity detection sensor 45 is installed. Moreover, a control panel is formed and the safety switch 46 and the manual conveyance switch 47 of medal conveyance which were mentioned above are formed in the bottom of the guidance nozzle 15 of the medal loan machine 200.

[0026] That is, the medal proximity detection sensor's 45 detection of proximity of a medal 1 sends the detecting signal to a control unit 12 through a non-illustrated. signal line. A control unit 12 conveys a medal 1 automatically by starting the drive motor of the medal conveyance belts 18, 35, and 37 based on this detecting signal. [0027] If a safety switch 46 is pushed at this time, a stop signal will be sent to a control unit 12 through a non-illustrated signal line, and a control unit 12 will suspend the drive motor of the medal conveyance belts 18, 35, and 37 based on this stop signal. Moreover, if the manual conveyance switch 47 is pushed, a manual carrier signal will be sent to a control unit 12 through a non-illustrated signal line, and a control unit 12 will restart rotation of the drive motor of the medal conveyance belts 18, 35, and 37 based on this manual carrier signal. [0028] (2nd operation form) It is drawing in which drawing 3 shows the front view of a medal loan machine and a slot machine, and drawing 4 shows the cross-section structure of the right lateral of the medal loan machine. In addition, the sign same about the same component as drawing 1 and drawing 2 is attached, and the explanation is omitted. The point that this operation form differs from the 1st operation form is a point of having lost the bill transport device 40. Instead, the bill discernment unit 50 and the bill stowage 51 are established in the interior of the main part of the bill discrimination circuit 10, and the bill thrown into the bill discrimination circuit 10 is contained by this bill stowage 51, and it is constituted so that it may collect.

[0029] (3rd operation form) It is drawing in which drawing 5 shows the front view of a medal loan machine and a slot machine, and drawing 6 shows the cross-section structure of the right lateral of the medal loan machine. In addition, the sign same about the same component as drawing 1 and drawing 2 is attached, and the explanation is omitted. The point that this operation form differs from the 1st operation form is a point of having lost the bill transport device 40 and the bill discrimination circuit 10. With this operation form, a medal is chiefly paid out of the

medal expenditure mouth 31 of a slot machine 200, and lift conveyance is carried out by the medal transport device explained in full detail with the 1st operation form, and it is thrown into the guidance nozzle 15 prepared in the main part of the medal loan machine 200 through this guidance nozzle 15 at the medal input port 30 of a slot machine 200.

[0030] (4th operation form) Drawing 7 is the front view of a medal loan machine, a medal conveyance unit, and a slot machine. Drawing 8 is drawing showing a medal conveyance unit, drawing 8 (A) is the front view, and drawing 8 (B) is the fragmentary sectional view. Moreover, drawing 9 is drawing showing the crosssection structure of the right lateral of the medal conveyance unit of drawing 8. In addition, the sign same about the same component as drawing 1 and drawing 2 is attached, and the explanation is omitted.

[0031] The medal conveyance unit 300 is interposed between the slot machine 200 and the medal loan machine 400. In this operation form, the medal loan machine 400 is not equipped with the medal lift conveyance function, and it is constituted so that a medal 1 may be thrown into the medal input port 30 of a slot machine 200 through the guidance nozzle 61 prepared in the main part. And the medal 1 discharged from the medal exhaust port 31 of a slot machine 200 is put on the medal conveyance belt 62, and is conveyed to the medal conveyance unit 300, and lift conveyance is further carried out by the medal conveyance unit 300.

[0032] And a medal 1 is thrown into the medal input port 30 of a slot machine 200, falling to the guide rail 64 of the medal guidance nozzle 61 from the medal exhaust port 63 prepared in the front face of the main part of the medal loan machine 400, and rolling a guide rail 64. That is, with this operation form, the medal loan machine 400 and the medal conveyance unit 300 are formed separately.

[0033] Hereafter, the concrete composition of the medal loan machine 400 and the medal conveyance unit 300 is explained in full detail. As for the bill input port of a bill discrimination circuit, and 66, in the medal loan machine 400 shown in drawing 7, 65 is [a display panel and 67] medal expenditure saucers. A bill is thrown in from bill input port 65, and if it is distinguished by the bill discrimination circuit by which the bill was built in the main part that it is a true bill, the medal 1 of predetermined number of sheets will be thrown into the medal input port 30 of a slot machine 200 through the guidance nozzle 61 from the medal expenditure machine built in the main part. Or the medal 1 of predetermined number of sheets may be made to be discharged by the medal expenditure saucer 67.

[0034] The medal 1 discharged from the medal exhaust port 31 of a slot machine 200 is conveyed to the medal conveyance unit 300 side in the state where it was laid on the medal conveyance belt 62 installed in the medal saucer section of a slot machine 200. the medal conveyance belt 62 — a pulley 71 — it is hung 72, and it is constituted so that the rotation drive of the shaft of a pulley 71 may be carried out by the non-illustrated motor Moreover, the medal conveyance belt 62 is approached and the medal proximity detection sensor 45 is installed.

[0035] The medal 1 which has the medal conveyance belt 62 top conveyed is transported on the medal conveyance belt 73 prepared in the medal conveyance unit 300. The conveyance path is formed in the right-angled direction to the medal conveyance belt 62, and this medal conveyance belt 73 is conveyed for a medal 1 inside a main part from the medal carrying-in mouth 74 prepared in the medal conveyance unit 300 with the medal conveyance belt 73. In addition, the medal conveyance belt 73 is an endless belt hung on pulleys 75 and 76, and drives the shaft of a pulley 76 by the motor which carries out a rotation drive.

[0036] And from the medal conveyance relay position P of the edge of the medal conveyance belt 73, the medal which has had the medal conveyance belt 73 top conveyed is moved to the medal conveyance belt 80, and lift conveyance is carried out with this medal conveyance belt 80. The medal conveyance belt 80 is an endless belt hung on the pulleys 81 and 82 arranged in the vertical direction of the main part of the medal conveyance unit 300. The upper pulley 82 is shifted and arranged in the

belt hung on the pulleys 81 and 82 arranged in the vertical direction of the main part of the medal conveyance unit 300. The upper pulley 82 is shifted and arranged in the direction of the medal exhaust port 63 prepared in the front face of the main part of the medal conveyance unit 300. And the medal conveyance belt 80 is guided to the pulley 82 by the guide idler 83 prepared under the pulley 82. Moreover, gearings 87 and 88 engage with a pulley 81, and it is constituted so that rotation of the gear 86 of a motor 85 may be transmitted.

[0037] Moreover, the medal installation base 84 of much letters of a salient is

[0037] Moreover, the medal installation base 84 of much letters of a salient is established in the medal conveyance belt 80, and in the above-mentioned medal conveyance relay position P, where one sheet is put to sleep at a time on the medal installation base 84, lift conveyance of the medal 1 conveyed from the medal conveyance belt 73 is laid and carried out.

[0038] And if the medal installation base 84 which carried the medal 1 reaches the position of a guide idler 83, when the inclination of the medal installation base 84 arises, the medal of the medal installation base 84 will glide over the medal chute section 89 which forms a slant face, and will be discharged by the exterior of a main part from the medal exhaust port 63. Then, since the medal exhaust port 63 is arranged so that a guide rail 62 of the aforementioned guidance nozzle 61 may be desired, the medal which glides over the medal chute section 89 is thrown into the medal input port 30 of a slot machine 200, being accepted in the guide rail 62 of the guidance nozzle 61 from the medal exhaust port 63, and rolling the inside of this guide rail 62.

[0039] In addition, a control panel 90 is formed in the front face of the main part of the medal conveyance unit 300, and the safety switch 91 and the manual conveyance switch 92 of medal conveyance which were mentioned above are formed in it. Moreover, the control unit 93 is formed in the interior of the main part corresponding to the position of a control panel 90.

[0040] That is, the medal proximity detection sensor's 45 detection of proximity of a medal 1 sends the detecting signal to a control unit 93 through a non-illustrated signal line. A control unit 93 conveys a medal 1 automatically by starting the drive

motor of the medal conveyance belts 62, 73, and 80 based on this detecting signal. If a safety switch 91 is pushed at this time, a stop signal will be sent to a control unit 93 through a non-illustrated signal line, and a control unit 93 will suspend the drive motor of the medal conveyance belts 62, 73, and 80 based on this stop signal. Moreover, if the manual conveyance switch 92 is pushed, a manual carrier signal will be sent to a control unit 93 through a non-illustrated signal line, and a control unit 93 will resume rotation of the drive motor of the medal conveyance belts 62, 73, and 80 based on this manual carrier signal.

[0041] in addition, the 1- which mentioned above the medal conveyance mechanism of the medal conveyance unit 300 of this operation form — it is applicable also to the medal transport device in the medal loan machine of the 3rd operation form moreover — reverse — the 1- the medal transport device (packet carrier system) in the medal loan machine of the 3rd operation form is applicable also to the medal conveyance unit 300 of this operation form

[0042] next, above-mentioned the 1- other medal transport devices applicable to medal conveyance of the 4th operation form are explained

(others — 1 of medal *********) drawing 10 is structural drawing of the transverse plane of a medal transport device, and drawing 11 is structural drawing of the side The medal 1 discharged from the medal exhaust port (un-illustrating) of a slot machine 200 is carried on the medal conveyance belt 110, and is conveyed at the medal loan machine 101 (or medal conveyance unit) side. The medal conveyance belt 110 is an endless belt hung on the pulley 111,112,113,114, for example, rotates in the clockwise direction by carrying out the rotation drive of the shaft of a pulley 111 by the non-illustrated motor.

[0043] The medal 1 which has the medal conveyance belt 110 top conveyed is contacted by the guide plate 115 prepared on the medal conveyance belt 110, is incorporated inside the main part of the medal loan machine 101 along the slant face of the guide section 117, and is conveyed to the medal conveyance relay position P of the edge of the guide section 117.

[0044] And a medal 1 is the medal conveyance relay position P, it is laid in the medal conveyance belt 120 for lift conveyance, and lift conveyance is carried out. Many medal installation bases 123 are established in this medal conveyance belt 120. A medal 1 is carried in the state where it stood up on this medal installation base 123. Moreover, the medal conveyance belt 120 is an endless belt hung on the lower pulley 121 and the upper pulley 122, for example, rotates the shaft of a pulley 121 in the counterclockwise direction in drawing 11 by carrying out a rotation drive by the motor (un-illustrating). Here, the medal conveyance belt 120 has prevented that the medal 1 carried on the medal installation base 123 falls on the way by leaning aslant [right] a little from perpendicular.

[0045] In this way, the medal 1 by which lift conveyance was carried out with the medal conveyance belt 120 is thrown into the guidance nozzle 124, falling in the summit section and gliding over the medal chute section 125. And it is supplied to

the medal input port (un-illustrating) of the slot machine 200 installed through the guidance nozzle 124. In addition, about a medal contiguity detection sensor, the safety switch of medal conveyance, and a manual conveyance switch, it can prepare like the 1st operation gestalt etc.

(others -- 2 of medal *********) drawing 12 is structural drawing of the transverse plane of a medal transport device, and drawing 13 is structural drawing of the side The medal 1 discharged from the medal exhaust port (un-illustrating) of a slot machine 200 is carried on the medal conveyance belt 110, and is conveyed at the medal loan machine 102 (or medal conveyance unit) side. The medal conveyance belt 110 is an endless belt hung on the pulley 111,112,113,114, for example, rotates in the clockwise direction by carrying out the rotation drive of the shaft of a pulley 111 by the non-illustrated motor.

[0046] The medal 1 which has the medal conveyance belt 110 top conveyed is formed in the main part of a medal transport device, is moved on the medal conveyance belt 130, and is contained by the medal conveyance bucket 132 (medal conveyance box) which it is contacted by the guide plate 115 prepared on the medal conveyance belt 110, is incorporated inside the main part of the medal loan machine 101 along the slant face of the guide section 131, and is standing by at the end of the guide section 131. The medal conveyance bucket 132 is attached in the spiral shaft 141 (spiral shaft), and it is constituted so that it may go up by rotation of the spiral shaft 141.

[0047] The motor for a drive, the gearing with which 133 transmits 134 and 135 transmit rotation of a motor, the spur-tooth one-way clutch (one way clutch) with which 136 was attached in the shaft of the pulley of the medal conveyance belt 130, and 137 are the **** gears for transmitting a **** one-way clutch (one way clutch) and the power with which the sensor for medal packet localization and 138 rotate 139, and 140 rotate the spiral shaft 141. 142 is a sensor for a medal full check which tells that the medal conveyance bucket 132 filled with the medal 1.

[0048] Next, operation of the medal transport device of composition of having mentioned above is explained. In addition, the medal transport device shall be equipped with the control unit which controls the following operation.

[0049] If the medal contiguity detection sensor 145 installed by approaching the medal conveyance belt 110 detects a medal 1, when a motor 133 makes it right—rotate, the medal conveyance belt 110,130 will be rotated and a medal 1 will be conveyed. And a medal 1 is made to turn by the guide plate 115, and it passes to the guide section 131, and contains in the medal conveyance bucket 132.
[0050] And when the sensor 142 for a medal full check detects medal ****, the

medal conveyance belt 110,130 is stopped and a motor 133 is made to rotate reversely. Then, when driving force is transmitted to the **** one-way clutch 138 and the **** gear 139,140 engaged mutually rotates, the spiral shaft 141 in which the **** gear 140 was attached rotates, and the medal conveyance bucket 132 goes up. And by contacting the chute guide 143 in which the medal conveyance

bucket 132 was installed in the upper part of a main part, the medal conveyance bucket 132 rotates in a front face around the pivot, and the medal contained by the medal conveyance bucket 132 glides over the medal chute section 144, and is discharged outside. And although illustrated and twisted, it is supplied to the medal input port (un-illustrating) of the slot machine 200 installed through the guidance nozzle.

(others — 3 of medal *************************) drawing 14 is structural drawing of the transverse plane of a medal transport device, and drawing 15 is structural drawing of the side Three rotation disks 150,151,152 consist of gearings, and they are engaging with the interior of the main part of a medal transport device so that rotation of a motor 153 may be transmitted. And the rotation disk 150,151,152 rotates each axis of rotation 154,155,156 as a center. 157 is the guide section guided to a main part from an external medal conveyance belt. The stowages 158, 159, 160, 161, 162, 163, 164, 165, and 167 which contain a medal 1 are established in the rotation disk 150,151,152.

[0051] Moreover, the guide pin for 168 moving a medal 1 to the rotation disk 151 from the rotation disk 150 and 169 are the guide pins for moving a medal 1 to the rotation disk 152 from the rotation disk 151.

[0052] Next, operation of the medal transport device of composition of having mentioned above is explained. The medal 1 carried in from the guide section 157 is contained by the stowage 158 of the rotation disk 150. And with rotation of the rotation disk 150, a guide pin 169 contacts and turns the medal 1 which arrived at the position of a guide pin 168, and it is contained by the stowage 161 of the rotation disk 151. And with rotation of the rotation disk 151, a guide pin 169 contacts and turns the medal 1 which arrived at the position of a guide pin 169, and it is contained by the stowage 164 of the rotation disk 152.

[0053] Thus, by moving to the rotation disk 150->151->152 one after another, lift conveyance is carried out and a medal 1 is discharged by the exhaust port 170 shell exterior established in the position of the rotation disk 152.

[0054] Next, the detailed composition of the medal conveyance section by the side of a slot machine 200 is explained. the 1- which the following medal conveyance sections mentioned above — it is applicable to the 4th operation gestalt Drawing 16 is the plan of the medal conveyance section by the side of a slot machine 200. Drawing 17 is drawing showing the structure of the medal conveyance section by the side of a slot machine 200. Drawing 17 (A) is the fragmentary sectional view of the upper surface, and drawing 17 (B) is the cross section of the transverse plane. [0055] As shown in drawing 16, the medal 1 discharged from the medal exhaust port of a slot machine 200 is received in the medal cup 180. A game visitor flips the medal 1 stored by the medal cup 180 by the presser foot stitch tongue of a finger etc., and carries a medal 1 on the medal conveyance belt 181 prepared in the medal cup 180. In addition, 190 is an ash pan.

[0056] Thereby, even the medal loan machine which adjoins with the medal

conveyance belt 181 can convey a medal.

[0057] Moreover, as shown in drawing 17, the medal conveyance belt 181 is an endless belt hung on the pulley 182,183, and the motor 184 which carries out the rotation drive of the shaft of a pulley 182 is installed. Moreover, the medal conveyance belt 185 is formed in the termination of the medal conveyance belt 181. The medal 1 which has had the medal conveyance belt 181 top conveyed goes up with this medal conveyance belt 185, and it is constituted so that it may be taken out to the medal cup 180 shell exterior. That is, the medal conveyance belt 185 is an endless belt hung on the pulley 186,187, inclines and is arranged. Moreover, the reverse rotation roller 188 (idler) was formed on the trailer of the medal conveyance belt 182, and the lap of a medal 1 is prevented.

[0058] Drawing 18 is drawing showing other examples of composition of the medal conveyance section by the side of a slot machine 200. Only an interval A is estranged above the medal conveyance belt 191, and the metal tank 192 is arranged. You may form the metal tank 192 in the interior of ** RI and a slot machine 200 by the tank which stores the medal of a large number from a slot machine 200. And two or more medal exhaust ports 193 are formed in the bottom of the metal tank 192. [0059] The medal 1 which fell from the medal exhaust port 193 has the medal conveyance belt 191 top conveyed. Here, as for the interval A of the metal tank 192 and the conveyance belt 191, it is desirable to set it as the interval at which one medal can flow, and 1.7mm - 2mm.

[0060] Moreover, by preparing the stirring hand (un-illustrating) for stirring the medal 1 in the medal tank 192, a medal 1 becomes easy to fall from the medal exhaust port 193, and can raise medal conveyance efficiency.

[0061]

[Effect of the Invention] A game can be performed without a game visitor touching a medal from beginning to end, since it is conveyed by the guidance nozzle by the medal transport device about the medal discharged from the medal exhaust port of a game machine in the midst of the game since the medal transport device which conveys the medal which was discharged from the medal exhaust port of a game machine according to this invention for a guidance nozzle was prepared and a medal is again thrown into the medal input port of the game machine from a guidance nozzle.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.

2.**** shows the word which can not be translated.

3.In the drawings, any words are not translated.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the front view of a medal loan machine and a slot machine concerning the 1st operation gestalt of this invention.

[Drawing 2] It is drawing showing the cross-section structure of the right lateral of the medal loan machine shown in drawing 1.

[Drawing 3] It is the front view of a medal loan machine and a slot machine concerning the 2nd operation gestalt of this invention.

[Drawing 4] It is drawing showing the cross-section structure of the right lateral of the medal loan machine shown in drawing 3.

[Drawing 5] It is the front view of a medal loan machine and a slot machine concerning the 3rd operation gestalt of this invention.

[Drawing 6] It is drawing showing the cross-section structure of the right lateral of the medal loan machine shown in drawing 5.

[Drawing 7] It is the front view of the medal loan machine concerning the 4th operation gestalt of this invention, a medal conveyance unit, and a slot machine.

[Drawing 8] It is drawing showing the medal conveyance unit concerning the 4th operation gestalt of this invention.

[Drawing 9] It is drawing showing the cross-section structure of the medal conveyance unit right lateral shown in drawing 7.

[Drawing 10] It is structural drawing of the transverse plane of a medal transport device.

[Drawing 11] It is structural drawing of the side of a medal transport device shown in drawing 10.

[Drawing 12] It is structural drawing of the transverse plane of a medal transport device.

[Drawing 13] It is structural drawing of the side of a medal transport device shown in drawing 12.

[Drawing 14] It is structural drawing of the transverse plane of a medal transport device.

[Drawing 15] It is structural drawing of the side of a medal transport device shown in drawing 14.

[Drawing 16] It is the plan of the medal conveyance section by the side of a slot machine 200.

[Drawing 17] It is drawing showing the structure of the medal conveyance section by

the side of a slot machine 200.

[Drawing 18] It is drawing showing other examples of composition of the medal conveyance section by the side of a slot machine 200.

[Description of Notations]

10 Bill Discrimination Circuit, 11 Input Port, 12 Control Unit, 13 Medal Expenditure Machine, 14 The medal chute section, 15 Guidance nozzle 16 bill guidance implement, 17 The medal one time reservoir section, 18 A medal conveyance belt, 19, 20, 21 Pulley, 22 A medal conveyance packet, 23 The medal chute section, 31 Medal expenditure mouth, 32 A rotation starting lever, 33 A rotation reel, 34 Earth switch, 35 A medal conveyance belt, 36 A pulley, 37 A medal conveyance belt, 40 A bill transport device, 45 A medal proximity detection sensor, 46 A safety switch, 47 A manual conveyance switch, 100 A medal on-hire opportunity, 200 Slot machine

[Translation done.]

* NOTICES *

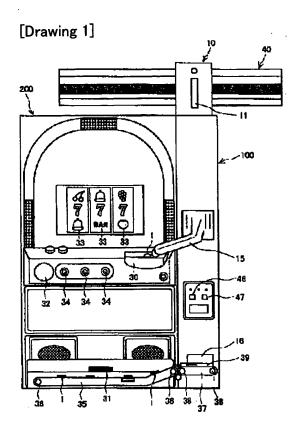
Japan Patent Office is not responsible for any damages caused by the use of this translation.

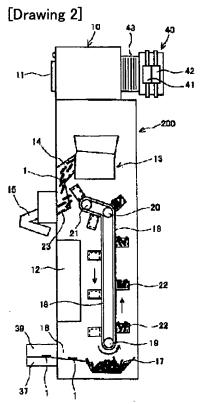
1. This document has been translated by computer. So the translation may not reflect the original precisely.

2.**** shows the word which can not be translated.

3.In the drawings, any words are not translated.

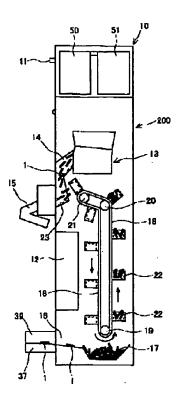
DRAWINGS	

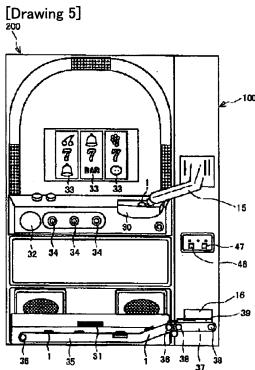




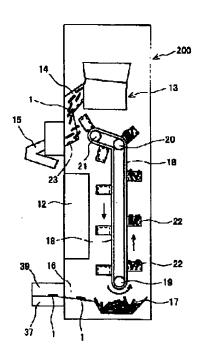
[Drawing 4]

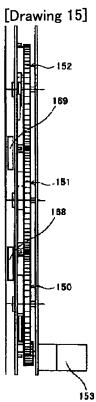
19



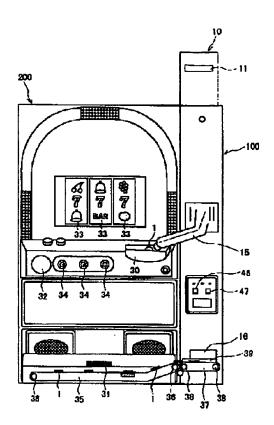


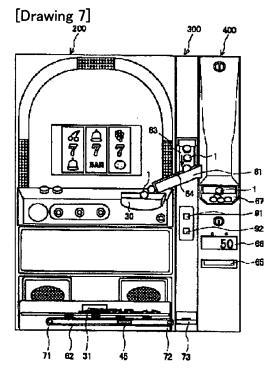
[Drawing 6]



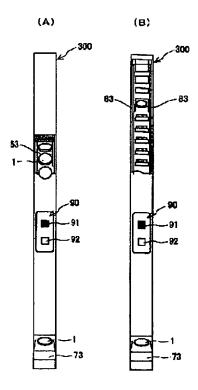


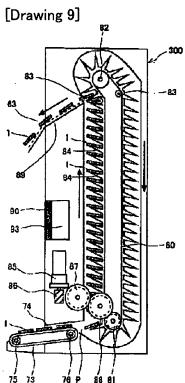
[Drawing 3]



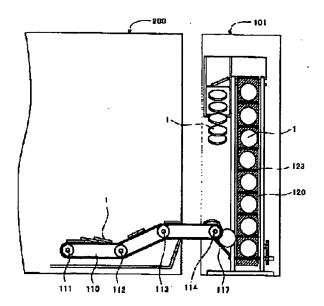


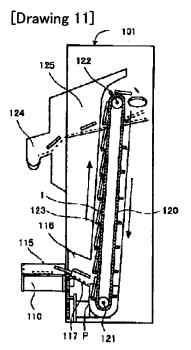
[Drawing 8]

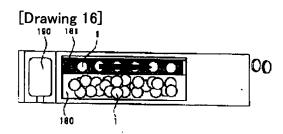




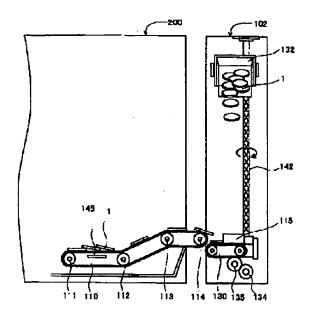
[Drawing 10]

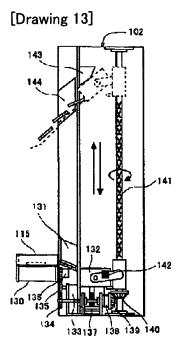




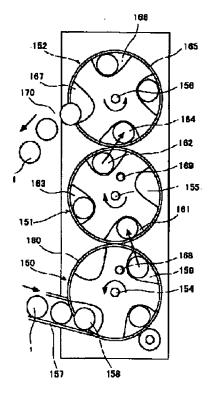


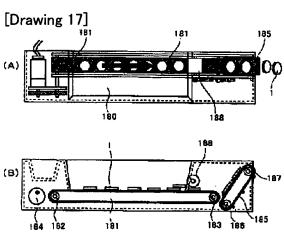
[Drawing 12]

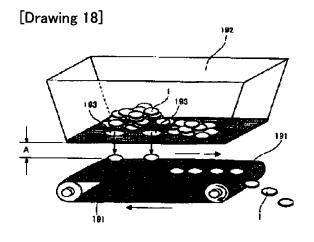




[Drawing 14]







[Translation done.]